

20001026.ba v03_n020.bam.20001026

>From ???@??? Thu Oct 26 20:18:57 2000 -0600
Date: Thu, 26 Oct 2000 20:16:33 CDT
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 3020
Message-Id: <20001027011855.00D94280@devel143.theporch.com>

BOATANCHORS Digest 3020

Topics covered in this issue include:

- 1) Re: Copper Clad Antenna Wire
by "Barry L. Ornitz" <ornitz@tricon.net>
- 2) Restoring wafer switch shaft?
by Sandy Gerli <angerli@home.com>
- 3) RE: Restoring wafer switch shaft?
by "Ed Sieb" <sieb@sympatico.ca>
- 4) Re: Restoring wafer switch shaft?
by Arden Allen <gumbear@pacbell.net>
- 5) Re: Restoring wafer switch shaft?
by AAFRadio@erols.com
- 6) amphenol 1354
by "luc dugas" <collins2@globetrotter.net>
- 7) Re: Restoring wafer switch shaft?
by Al Klase <skywaves@bw.webex.net>
- 8) Re: 65 kHz harmonic artifact?
by "Sandy Blaize" <ebjr@i-55.com>
- 9) Re: Restoring wafer switch shaft?
by "A. B. Bonds" <ab@vuse.vanderbilt.edu>
- 10) RE: Odd straight key
by jmccarty@lucent.com (John J Mccarty)
- 11) Re: 65 kHz harmonic artifact? (Touch Lamps)
by "Richard Brunner" <rbrunner@gis.net>
- 12) Restoring wafer switch shaft
by James.Reid@merisel.com
- 13) RE: 65 kHz harmonic artifact?
by "Ed Sieb" <sieb@sympatico.ca>
- 14) need AT-1 info
by brian.k.harris@philips.com
- 15) Re: 65 kHz harmonic artifact?
by "Don Ehrlich" <ehrlich@olypen.com>
- 16) Heathkit SG-8
by "Rhett T. George" <rtg@ee.duke.edu>
- 17) Re: Heathkit SG-8
by Scott Robinson <spr@earthlink.net>
- 18) Re: need AT-1 info

by "John Dilks, K2TQN" <oldradio@worldnet.att.net>
19) Cool Tubes
by Jerry Proc <jproc@idirect.com>
20) FT: NOS 954's..
by "Sandy Blaize" <ebjr@i-55.com>
21) Re: Restoring wafer switch shaft?
by "Sandy Blaize" <ebjr@i-55.com>
22) FT243 Xtal source?
by Daniel Wright <dw73454@navix.net>

Message-ID: <006e01c03efe\$43ae8520\$5f5f62d8@naxs.com>
From: "Barry L. Ornitz" <ornitz@tricon.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Copper Clad Antenna Wire
Date: Wed, 25 Oct 2000 23:38:50 -0400
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I think K7SLI has the process of annealing and hard-drawing reversed. Annealing involves heating a material to a point where internal stresses are relieved. This makes it soft again. Hard-drawing is the operation you describe. It is analogous to work hardening. The strain in the material hardens it making it resist future stretching. In more technical terms thermal annealing is the process whereby a metal is heated and cooled slowly in an attempt to obtain perfect crystallization producing a lower energy state in the metal.

Copperweld wire is available both annealed and as manufactured. The drawing process and the sizing dies harden the material making it extremely "springy". The same wire can be annealed to soften it by the extra step of passing it through a heating oven followed by slow cooling.

For long, unsupported strands of antenna wire, the National Electric Code is pretty specific about using copper-clad steel or hard-drawn copper wire.

73, Barry WA4VZQ ornitz@tricon.net

Message-ID: <39F7B588.5B6AECF6@home.com>
Date: Thu, 26 Oct 2000 00:39:36 -0400
From: Sandy Gerli <angerli@home.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Restoring wafer switch shaft?
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Hi, gang,

I'm doing some major surgery on a late 1940s French LW/MW/SW radio. The bandswitch shaft was snapped off right in the chassis front-panel through-bearing.

Well, I got the switch assembly off the panel and turned where I could work on it. Got the spring detent off the wafer shaft part, and removed the broken part of the shaft from the bearing. The shaft is brass.

Now, looks like I've got to do the relatively-impossible: find a substance which will "glue"/"cement"/whatever the broken shaft sections back together. The break does not seem to be a perfect match between the sections. The shaft must have been hit pretty sharply to have the shaft snap off as it did.

Is it possible that I've seen references to some stuff called JB Weld? It might have been on this reflector, and I recall that it can be used to remold/repair metal failures? I'd rather try this stuff than anything like a slow-cure gel cyanoacrylate; I just don't think that would have enough tensile strength to withstand the spring detents in a bandswitch.

I'd appreciate any thoughts for my next stes(s).

73,

--

Sandy Gerli, AC1Y
500 Country Club Road
Avon, CT 06001-2406 USA
Telephone: 1-860-675-5566
E-Mail: angerli@home.com

Life Member: ARRL & QCWA
CCA, HCA, and Old Heathkit Green!!

Boatanchors are Ham Radio's heritage!
Restore something, anything! Smell that hot solder!
Better 'n booze...
And, you can get up afterwards if you stay away from the B+!!
Keep your finals dipped, now...

From: "Ed Sieb" <sieb@sympatico.ca>
To: Old Tube Radios <boatanchors@theporch.com>

Subject: RE: Restoring wafer switch shaft?
Date: Thu, 26 Oct 2000 00:59:08 -0400
Message-ID: <LOBBJH0L00HLIPLONIAFAE00DEAA.sieb@sympatico.ca>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Ah! JB Weld!

This is a very high strength epoxy, which when set and hardened, truly exhibits very high strength and hardness. When hard, I believe it will possess enough strength to do the job you require, but you can only find out, when you try it.

I've used it to cement everything from metal eyeglass frames, as a "wood-filler" for a garage door frame, repaired a hinge on a tool box. Works for me, but like I said, you have to try it yourself.

Here is the contact info:
<http://www.j-bweldco.com/>

Hope it does he job!

73
Ed
VA3ES

> -----Original Message-----
> From: Sandy Gerli
> Sent: Thursday, October 26, 2000 12:40 AM
>
> Is it possible that I've seen references to some stuff called JB Weld?
>

Date: Thu, 26 Oct 2000 01:54:27 -0700
From: Arden Allen <gumbear@pacbell.net>
Subject: Re: Restoring wafer switch shaft?
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <0G31002NV4NVRA@mta1.snfc21.pbi.net>
MIME-version: 1.0
Content-type: text/plain; charset=ISO-8859-1
Content-transfer-encoding: 7bit

Hi Sandy;

JB Weld is a very good epoxy for bonding metal parts. I just finished cementing a speaker mounting brack to a replacement speaker using Permatex Cold Weld, a very good competitive product. One might think that in order to maintain smooth and reliable operation of the switch you will have to lubricate the shaft in the bushing. The lubricant and epoxy may not be compatible over a long period of time and the joint may eventually fail. I have an electric fan that I cemented the fan onto the motor shaft with epoxy back in 1962. Oil seeping from the motor bushing has constantly bathed the epoxy since then, I use the antique fan every summer and relubricate the bearings every season. It's still holding! Make sure the metal has been completely cleaned of any lubricant residue before cementing.

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

Message-ID: <39F81F04.CBBC4EC5@erols.com>
Date: Thu, 26 Oct 2000 07:09:41 -0500
From: AAFRadio@erols.com
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Restoring wafer switch shaft?
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I am a born optimist. I always hope for the best. However, a quick calculation indicates the shear strength of any of the common epoxies won't do the job (by themselves), and that matches sad experience. The miracle epoxies do pretty well with larger surface areas, but .05 square inch of bonding suffice doesn't give it much to work with, and you'll have both torsional shear and varying axial tension forces on the weld in normal use, with high shock peaks added by the detent mechanism - that's the point in time where the epoxy usually fails. In my limited experience, if you have the switch apart and want to do the job in a way that will be as good as the original, then you'll have to drill and install a 1/8" diameter rod in the shaft, preferably high strength like stainless, but brass rod is probably more available at hobby stores and the like. The J-B Weld or other epoxy will do fine as an adhesive to lock this in. If you don't have access to a lathe, you can use a hand drill with a 1/4" machinists' center drill guided in a spare shaft coupling to keep the drill initially straight. That will get you an eighth on an inch into the shaft and centered - the rest of a 1/2" depth or so in each piece you can drill with a conventional twist drill.

Mike Hanz KC4TOS

Sandy Gerli wrote:

> I'm doing some major surgery on a late 1940s French LW/MW/SW
> radio. The bandswitch shaft was snapped off right in the chassis
> front-panel through-bearing.
>
> Now, looks like I've got to do the relatively-impossible: find a
> substance which will "glue"/"cement"/whatever the broken shaft
> sections back together.

Message-ID: <001a01c03f00\$1de264e0\$ee36a98e@lucdugas>
From: "luc dugas" <collins2@globetrotter.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: amphenol 1354
Date: Thu, 26 Oct 2000 06:52:07 +0300
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="-----=_NextPart_000_0017_01C03F19.418D85A0"

This is a multi-part message in MIME format.

-----=_NextPart_000_0017_01C03F19.418D85A0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

i found in microwave equipment coaxial cable choke made with 21-597x1 =
amphenol ul 1354. does someone knows the impedance of that cable.

luc ve2lgj 73s

-----=_NextPart_000_0017_01C03F19.418D85A0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

* * * * *
* ---REMAINDER OF MESSAGE TRUNCATED--- *
* This post contains a forbidden message format *
* (such as an attached file, a v-card, HTML formatting) *
* Mail Lists at theporch.com only accept PLAIN TEXT *
* If your postings display this message your mail program *
* is not set to send PLAIN TEXT ONLY and needs adjusting *
* * * * *

-----=_NextPart_000_0017_01C03F19.418D85A0--

Message-ID: <39F84D0D.34CF620A@bw.webex.net>
Date: Thu, 26 Oct 2000 08:26:05 -0700
From: Al Klase <skywaves@bw.webex.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Restoring wafer switch shaft?
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Sandy,

I'm with Mike. You haven't a prayer of doing this with epoxy alone. Please let me know if I'm proven wrong.

73,
Al

--
Al Klase - N3FRQ
skywaves@bw.webex.net
Flemington, NJ 08822
Web Page: <http://www.webex.net/~skywaves/home.htm>

Message-Id: <200010261335.IAA14964@exit1.i-55.com>
From: "Sandy Blaize" <ebjr@i-55.com>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "Boatanchors reflector" <boatanchors@theporch.com>
Subject: Re: 65 kHz harmonic artifact?
Date: Wed, 25 Oct 2000 22:35:30 -0500
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

> I'm betting it's one of those lamps you touch with your finger to turn on
> and off and vary the intensity. These horrid things are rich in
harmonics.

> I was plagued by on in the next apartment for more than a year before my
> neighbor kindly put it away.

>

> Regards,

>

> Dick

>

>

> Dick Dillman, W6AWO

"Touch lamps"! Ughh! My opinion is that they should take the SOB that thought of those and cut off some of the tender parts of his anatomy with a dull pair of scissors! If you run QRO, it will turn them on and off to boot!

SCR lamp dimmers can be a real noise generator as well! Fortunately, the ones that were installed in my new house must have been carefully chosen by the former owner (who was a ham) for low or no noise!

73,

Sandy W5TVW

Message-Id: <3.0.1.32.20001026092332.010ced78@vuse.vanderbilt.edu>

Date: Thu, 26 Oct 2000 09:23:32 -0500

To: Old Tube Radios <boatanchors@theporch.com>

From: "A. B. Bonds" <ab@vuse.vanderbilt.edu>

Subject: Re: Restoring wafer switch shaft?

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

At 12:39 AM 10/26/2000 -0400, you wrote:

>I'm doing some major surgery on a late 1940s French LW/MW/SW
>radio. The bandswitch shaft was snapped off right in the chassis
>front-panel through-bearing.

>

>Now, looks like I've got to do the relatively-impossible: find a
>substance which will "glue"/"cement"/whatever the broken shaft
>sections back together. The break does not seem to be a perfect
>match between the sections.

>Is it possible that I've seen references to some stuff called JB
>Weld? It might have been on this reflector, and I recall that it
>can be used to remold/repair metal failures? I'd rather try this
>stuff than anything like a slow-cure gel cyanoacrylate; I just
>don't think that would have enough tensile strength to withstand
>the spring detents in a bandswitch.

>

JB Weld is good, but it ain't that good. Neither is so-called super glue. No adhesive that I know is sufficiently strong to take the torque and bending moment of a typical bandswitch shaft.

Too bad the ends don't quite match.

If I were fixing it, I would chew the ends down to the point that they make a reasonable butt joint. Then I would chuck each in a lathe and drill down the center of each about 3/8" with about a 1/8" drill (assuming the shaft is 1/4"). I'd get a 3/4" length of 1/8" drill rod and insert it in the

holes. Once the assembly is stuck together, I'd silver solder it (not tin/lead allow, the hard stuff that needs a torch). Note that silver solder does not fill big gaping cracks well. The resulting fix would be nearly as strong as the original.

A. B. Bonds

From: jmccarty@lucent.com (John J Mccarty)
Date: Thu, 26 Oct 2000 09:45:31 -0500 (CDT)
Message-Id: <200010261445.JAA18066@nwsdpa.ih.lucent.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: Odd straight key

I have the same key, except someone cut the cord off at the end of the thicker section of the cord, leaving two nubs of wire. I've soldered another cord to the nubs, and tried to build the joint up for strenght with heat shrink tubing, but the joint remains weak and a small flex can sometimes break the connection. Since this seems to be a molded cord, is there a way to build it back up, or make the connections and "remold" something around it to make a half-way decent cord ?

Tnx

John n9hrt

Return-Path: <owner-boatanchors@theporch.com>
X-Sender: 4cx250b@miavx1.muohio.edu
To: Old Tube Radios <boatanchors@theporch.com>
From: "James C. Garland" <4cx250b@miavx1.acs.muohio.edu>
>Subject: Odd straight key

>

>Hi Gang,

>A friend gave me an old military or commercial key, and I wonder if anybody
>knows what it is? It is marked "BRELCO NY" on top and has a metal label
>marked CAQZ-26026, NXsr-60008, s/n 3814. I'm not a key collector, and this
>may be as common as dirt, but I haven't seen one before. I posted a
>snapshot of it at: <http://www.muohio.edu/~4cx250b/key.jpg>
>Thanks very much.

>73,

>Jim W8ZR

Message-ID: <013d01c03f5b\$506a6e20\$0c1f29d8@tne1tcds>
From: "Richard Brunner" <rbrunner@gis.net>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "Boatanchors reflector" <boatanchors@theporch.com>
Subject: Re: 65 kHz harmonic artifact? (Touch Lamps)
Date: Thu, 26 Oct 2000 10:44:13 -0400
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

"I'm betting it's one of those lamps you touch with your finger to turn on and off and vary the intensity. These horrid things are rich in harmonics."

Yes! Several years ago I came home from an extended field assignment, and found the hf spectrum obliterated by a rough buzz every 60 or 150 khz. At first I thought it was something from the cable company, and badgered them until they came out with their truck to investigate. They disconnected their coax at the end of the street, and it went UP in amplitude! They could see it on their 'scope, but it wasn't theirs. Next I thought it could be from the street light between me and my neighbor's house, and called the power company. They found it was not from the street light, and one-by-one disconnected the drops to each house and isolated it to my neighbor's house, and went home. I had to call them again to get this information. Fortunately I am on good terms with my neighbor. We went to the switch-box, opened one breaker at a time, and isolated it to the bedroom. In the bedroom I immediately spotted the touch-lamp, pulled the plug, and the QRM went away. It was off at the time.

Touch-lamps consist of an oscillator which is running all the time whether the lamp is on or off, and is switched by hand-capacitance when you touch the lamp frame. These touch-lamps, (cursed be the inventor and vendors, etc.) come in two flavors; those that only radiate directly, and those that also feed rf into the power line. Direct radiation can be stopped by dis-assembling and putting an rf choke and resistor in series with the lead to the frame. (antenna) From memory I think it was 2.5 mh and maybe 22 k Ohms. This has no effect on lamp operation. Conducted radiation can only be stopped by filtering the line. I modified the lamp and wrapped the line cord through a toroidal core, and that cured it 100%.

In theory, those touch-lamps are qualified under Part 15 as "Incidental Radiation Devices," but I wonder if they were actually tested by an independent laboratory. Unfortunately we can expect to see more "Incidental Radiation Devices" in the future.

Richard Brunner, AA1P, rbrunner@gis.net

Mime-Version: 1.0
Date: Thu, 26 Oct 2000 08:02:16 -0700
Message-ID: <00BADB88.C22034@merisel.com>
From: James.Reid@merisel.com
Subject: Restoring wafer switch shaft
To: Old Tube Radios <boatanchors@theporch.com>
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit
Content-Description: cc:Mail note part

I'll have to second or third or whatever the solution of center drilling the broken pieces of the shaft. My SX-28A came with a broken main tuning shaft. I cut a section of 1/4" shaft from an old volume control. At that time I had access to a lathe, so I faced each end, center drilled and tapped each piece for a 1" 4-40 set screw. I coated the threads with JB Weld and assembled. Now granted the torque on that part is less than a bandswitch, so my fix seems to be holding. It was certainly a lot easier than fabricating a new shaft. If you've ever seen the piece, you'll know why.

If you don't have access to a lathe, the job is gonna be pretty tough. Maybe a chunk of shaft from a Centralab wafer switch kit will offer some solutions. I believe those are steel and have a flat on each side of the shaft. Good luck!

-Jim N6SVS

From: "Ed Sieb" <sieb@sympatico.ca>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: 65 kHz harmonic artifact?
Date: Thu, 26 Oct 2000 12:19:34 -0400
Message-ID: <LOBBJH0LOOHLIPLONIAFMEPDDEAA.sieb@sympatico.ca>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Re: local QRM from electronic junk...

I've found that sending a long string of dahs, while running very QRO usually clears out the neighbourhood of electrical noise-makers.

The unmodulated carrier causes no one any audible RFI, yet the "sensitive" appliances usually suffer a nice permanent demise from the violently switched RF.

Mysteriously, all the cheap junk in the neighbourhood died at the same time. Must have been the weather.

Ed
VA3ES

From: brian.k.harris@philips.com
To: Old Tube Radios <boatanchors@theporch.com>
Subject: need AT-1 info
Message-ID: <0056910008258038000002L182*@MHS>
Date: Thu, 26 Oct 2000 12:41:57 -0500
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1; name="MEMO 10/26/00 12:23:18"
Content-Transfer-Encoding: quoted-printable
Content-Disposition: inline

I have very nice looking Heath AT-1 that I would like to restore (has a 6146 final now) before I put it up for adoption on BoatAnchors. Neither BAMA nor I have a manual or schematic. Can anyone help me? All I really need is the schematic.

Thanks and 73,

Brian K. Harris WA5UEK
Senior Field Application Engineer

Philips Semiconductors =20
2140 Lake Park Blvd. Suite 200
Richardson, Texas 75080 USA =20
Direct 972-705-2484
Main 972-644-1610
Fax 972-480-9617
Cell 214-763-3933
EMAIL brian.k.harris@philips.com

=

Message-ID: <004b01c03f7d\$13957e00\$87f9cdd0@fpfzqlga>
From: "Don Ehrlich" <ehrlich@olypen.com>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "boatanchor message" <boatanchors@theporch.com>
Subject: Re: 65 kHz harmonic artifact?
Date: Thu, 26 Oct 2000 11:43:56 -0700
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

You have seen messages listing possible sources ... here is another that really baffled me for a while. It was from a switching power supply built into a wall wart used to power a 12 volt halogen desk lamp. It was an expensive high class lamp but the power supply must have had no filtering at all! No am radios worked in the same house as the lamp when it was on ... and WHEN THE LAMP WAS OFF THE SWITCHING POWER SUPPLY WAS STILL POWERED AND STILL RADIATED, though at a lower level.

Don K7FJ

> >Over the past couple of weeks I have noticed a strong interference signal,
> >fairly broad-band carrier with hum, hugely harmonic at 65 kHz intervals.
> >It's present day and night, seems to be strongest around 1-2 mHz but is
> >clearly evident even around 8-10 mHz.
> >
> >Any ideas what this could be? Dog fence? Remote control of some kind?
> >
> > 73 A. B. Bonds

From: "Rhett T. George" <rtg@ee.duke.edu>
Date: Thu, 26 Oct 2000 17:00:06 -0400
Message-Id: <200010262100.RAA21592@champ.ee.duke.edu>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Heathkit SG-8

- Greetings -

Once again I come to this knowledgeable group for advice. The variable capacitor in the Heath signal generator is miniature Fourth of July fireworks display. The oscillator is a Colpitts circuit. The rotor of the capacitor is grounded while the stators are at the plate potential of the triode. Needless to say, the problem is that the rotor plates touch the stator plates here and there when rotated. What is the preferred scheme for respacing these, warp the frame or shift the stator position?

The stator can be shifted by stuffing in shims between the plates, softening the solder, and letting the stator reposition. Only one stator seems to have shorting problems.

If anyone has a manual for this instrument, I shall appreciate knowing the maximum capacitance per section of this two-section cap.

Message-Id: <v03007803b61e5c2fe69d@[209.179.245.94]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Thu, 26 Oct 2000 15:11:38 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: Scott Robinson <spr@earthlink.net>
Subject: Re: Heathkit SG-8

Rhett,

The manual shows 450 pF per section max capacitance.

Could your trouble be cruud rather than bent plates? Try compressed air or the old 300V behind 3K method.

Regards,

/scott

> - Greetings -

>

>Once again I come to this knowledgeable group for advice. The variable
>capacitor in the Heath signal generator is miniature Fourth of July
>fireworks display. The oscillator is a Colpitts circuit. The rotor
>fo the capacitor is grounded while the stators are at the plate potential
>of the triode. Needless to say, the problem is that the rotor plates
>touch the stator plates here and there when rotated. What is the preferred
>scheme for respacing these, warp the frame or shift the stator position?

>

>The stator can be shifted by stuffing in shims between the plates, softening
>the solder, and letting the stator reposition. Only one stator seems to
>have shorting problems.

>

>If anyone has a manual for this instrument, I shall appreciate knowing the
>maximum capacitance per section of this two-section cap.

>

>73 Rhett - KE4HIH

Message-Id: <4.3.2.7.0.20001026182825.00b90bd0@postoffice.worldnet.att.net>
Date: Thu, 26 Oct 2000 18:31:33 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: "John Dilks, K2TQN" <oldradio@worldnet.att.net>
Subject: Re: need AT-1 info

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

At 12:41 PM 10/26/2000 -0500, brian.k.harris@philips.com wrote:

>I have very nice looking Heath AT-1 that I would like to restore (has a
>6146 final now) before I put it up for adoption on BoatAnchors. Neither
>BAMA nor I have a manual or schematic. Can anyone help me? All I really
>need is the schematic.

>

>Thanks and 73,

>

>Brian K. Harris WA5UEK

Hi Brian,

Try this link: Heathkit Ham Radio Pages of KB9JJA

<http://members.accessus.net/~dwentz/kb9jja/heathkit/>

Click on the "Heathkit Schematics" drop down box and find AT-1. Click on the display button. You can then save and print the gif file.

73's de K2TQN, John Dilks

My Old Radio Column in QST Magazine

<http://www.eht.com/oldradio/arrl/>

Old Radio Wireless and Radio History page

<http://www.eht.com/oldradio/awa/>

K2TQN's Old Radio Museum

<http://www.eht.com/oldradio/museum/>

The New Jersey Antique Radio Club page

<http://www.eht.com/oldradio/>

Message-ID: <39F8C0D6.B5693632@idirect.com>

Date: Thu, 26 Oct 2000 19:40:08 -0400

From: Jerry Proc <jproc@idirect.com>

MIME-Version: 1.0

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Cool Tubes

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Hi Folks,

A story titled "Cool Tubes" appeared in an older issue of IEEE Spectrum.

<http://www.spectrum.ieee.org/select/0898/tube.html>

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Regards,
Jerry Proc VE3FAB jproc@idirect.com
<http://webhome.idirect.com/~jproc/ve3fab>
HMCS HAIDA Historic Naval Ship, Toronto Ontario

Message-Id: <200010270027.TAA03329@exit1.i-55.com>
From: "Sandy Blaize" <ebjr@i-55.com>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: <glowbugs@piobaire.mines.uidaho.edu>, <boatanchors@qth.net>,
 "Boatanchors reflector" <boatanchors@theporch.com>
Subject: FT: NOS 954's..
Date: Thu, 26 Oct 2000 19:39:24 -0500
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Trade: several NOS JAN-954 acorn tubes for
some NOS 955 tubes!

73,
Sandy Blaize, W5TVW
"In the heart of Pumpkin Center, LA"

Message-Id: <200010270047.TAA11805@exit1.i-55.com>
From: "Sandy Blaize" <ebjr@i-55.com>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "Boatanchors reflector" <boatanchors@theporch.com>
Subject: Re: Restoring wafer switch shaft?
Date: Thu, 26 Oct 2000 19:51:43 -0500
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

> Sandy,
>
> I'm with Mike. You haven't a prayer of doing this with
> epoxy alone. Please let me know if I'm proven wrong.

>
> 73,
> A1

A1,

Twern't me trying to fix a wafer switch! Musta been another Sandy? I tried that back when epoxy first came out....a bummer! I have been successful (sorta) with thorough cleaning, super glue and very thin epoxy fibreglass pc board stock about 1/64" thick. (no copper foil of course!) Depends on where the

Message-Id: <3.0.6.16.20001026200558.3197300a@mail.navix.net>
Date: Thu, 26 Oct 2000 20:05:58 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: Daniel Wright <dw73454@navix.net>
Subject: FT243 Xtal source?
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Greetings!

I'm having a blast with my newly aquired Lafayette HA-410 10 meter AM rig. I would like to get some crystals for it. What's a good source for new crystals. They have to be FT243 and 7Mhz (range) xtals.....thanks a bunch es

73 de Dan -- WA=D8JRD ..
Lincoln, Nebraska

End of BOATANCHORS Digest 3020
